Clarion Co. Ltd.
50 Kamitoda, Toda-shi, Saitama 335-8511 Japan
Service Dept.: 5-66 Azuma , Kitamoto-shi, Saitama 364-0007 Japan
Tel: +81-48-541-2335 / 2432 FAX: +81-48-541-2703

Clarion Corporation of America
6200 Gateway Drive, Cypress, CA90630, USA
Phone: (310) 327-9100; Fax: (310) 327-1999
Website: Http://www.clarion.com

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SERVICE MANUAL

400W 2/1 CHANNEL POWER AMPLIFIER

DPX2250

■SPECIFICATION

●Maximum Power Output	150W x 2 @1%
●Continuous Rated Power	125W x 2
●Power in bridged Mode	400W
●Power in 2 Ohm load	210W x 2
●Mono Power in 4 Ohm	400W
●Channel Separation	70dB
●Frequency Response	18 -30K
●Input Sensitivity	0.2 - 8V
●Input Impedance	22Kohm@line in; 470ohm@spkr
●Nominal battery voltage	14.4 DCV

■FEATURE

- ●400 Watts of Maximum Music Power
- ●125W × 2 Into 4 Ohms, 20Hz-20kHz @ < 0.05%THD
- ●200W × 2 Into 2 Ohms, 20Hz-20kHz @ < 0.1%THD
- ●Bridgeable, 400W × 1, 20Hz-20kHz @ < 0.2%THD
- ●Input Voltage Selector
- ●Precise Frequency Selector
- ●Variable Bass Extender; 0-15dB @ 50Hz
- ●Adjustable -12db/Oct. High/Low Pass Crossover, 50-250Hz Gold Plated Connectors; RCA/Speaker/Power Speaker Level Input
- ●Dimensions 13 1/4" × 12" × 2 7/8"

■CONTENT

PART NO	DESCRIPTION	QTY
UB 61-AW30-0500	HI LEVEL INPUT CABLE 5PIN 300mm	1
UB 23-WR35-1211	EPE FOAM 350*123*115mm	1
UB TB-APX1300-02	C-TICK STICKER	1
UB 95-CPDPX1800	DPX1800 MAIN UNIT	1
UB GB-DPX1800	GIFT BOX	1
UB LS-FSDG-0524	SCREW φ5*24MM	4
UB PE-1280-06PE	ZIPPER BAG 120*80*0.06mm	1
UB PE-2616-06PE	PE BAG 260*160*0.06MM	1
UB PE-7040-06PE	PE BAG 700*400*0.06mm	1
UB PE-7350-03GG-02	ZIPPER BAG 73*50*0.03MM	1
UB SMS-DPX2250	USER'S MANUAL	1
UB TB-DPX1800	MODEL LABEL	1
UB TB-DPX1800-01	S/N LABEL	1
UB TB-DPX1800-02	BARCODE LABEL	2
UB 23-WR35-1211-01	EPE FOAM (RIGHT)	1
UB DPX1800-08	REMOTE CONTROL	1

■TO ENGINEERS IN CHARGE OF REPAIR OR INSPECTION OF OUR PRODUCTS:

BEFORE REPAIR OR INSPECTION, MAKE SURE TO FOLLOW THE INSTRUCTIONS SO THAT CUSTOMERS AND ENGINEERS IN CHARGE OF REPAIR OR INSPECTION CAN AVOID SUFFERING ANY RISK OR INJURY. REMODELING FOR WHICH WE SHALL NOT BE LIABLE. THE ONUS OF PRODUCT LIABLITY (PL) SHALL NOT BE OUR RESPONSIBILITY IN CASES WHERE AN ACCIDENT OR FAILURE IS AS A RESULT OF UNSPECIFIED PARTS BEING USED OR DUE TO NEGLIGENCE DURING REPAIR.

1. USE SPECIFIED PARTS.
   THE SYSTEM USES PARTS WITH SPECIAL SAFETY FEATURES AGAINST FIRE AND VOLTAGE. USE ONLY PARTS WITH EQUIVALENT CHARACTERISTICS WHEN REPLACING THEM.
2. PLACE THE PARTS AND WIRING BACK IN THEIR ORIGINAL POSITIONS AFTER REPLACEMENT OR RE-WIRING.
   FOR PROPER CIRCUIT CONSTRUCTION, USE OF INSULATION TUBES, BONDING, GAPS TO PWB, ETC, IS INVOLVED. THE WIRING CONNECTION AND ROUTING TO THE PWB ARE SPECIALLY PLANNED USING CLAMPS TO KEEP AWAY FROM HEATED AND HIGH VOLTAGE PARTS. ENSURE THAT THEY ARE PLACED BACK IN THEIR ORIGINAL POSITIONS AFTER REPAIR OR INSPECTION.
3. CHECK FOR SAFETY AFTER REPAIR.
   CHECK THAT THE SCREWS, PARTS AND WIRES ARE PUT BACK SECURELY IN THEIR ORIGINAL POSITION AFTER REPAIR. ENSURE FOR SAFETY REASONS THERE IS NO POSSIBILITY OF SECONDARY PROBLEMS AROUND THE REPAIRED SPOTS.
4. CAUTION IN REMOVAL AND MAKING WIRING CONNECTION TO THE PARTS FOR THE AUTOMOBILE. DISCONNECT THE BATTERY TERMINAL AFTER TURNING THE IGNITION KEY OFF. IF WRONG WIRING CONNECTIONS ARE MADE WITH THE BATTERY CONNECTED, A SHORT CIRCUIT AND/OR FIRE MAY OCCUR.
5. CAUTIONS REGARDING CHIPS.
   DO NOT REUSE REMOVED CHIPS EVEN WHEN NO ABNORMALITY IS OBSERVED IN THEIR APPEARANCE. ALWAYS REPLACE THEM WITH NEW ONES. (THE CHIP PARTS INCLUDE RESISTORS, CAPACITORS, DIODES, TRANSISTORS, ETC). THE NEGATIVE POLE OF TANTALUM CAPACITORS IS HIGHLY SUSCEPTIBLE TO HEAT, SO USE SPECIAL CARE WHEN REPLACING THEM AND HECK THE OPERATION AFTERWARDS.
6. CAUTIONS IN HANDLING FLEXIBLE PWB BEFORE WORKING WITH A SOLDERING IRON MAKE SURE THAT THE IRON TIP TEMPERATURE IS AROUND 270 ℃. TAKE CARE NOT TO APPLY THE IRON TIP REPEATEDLY (MORE THAN THREE TIMES) TO THE SAME PATTERNS. ALSO TAKE CARE NOT TO APPLY THE TIP WITH FORCE.
7. TURN THE UNIT OFF DURING DISASSEMBLY AND PARTS REPLACEMENT. RECHECK ALL WORK BEFORE YOU APPLY POWER TO THE UNIT.

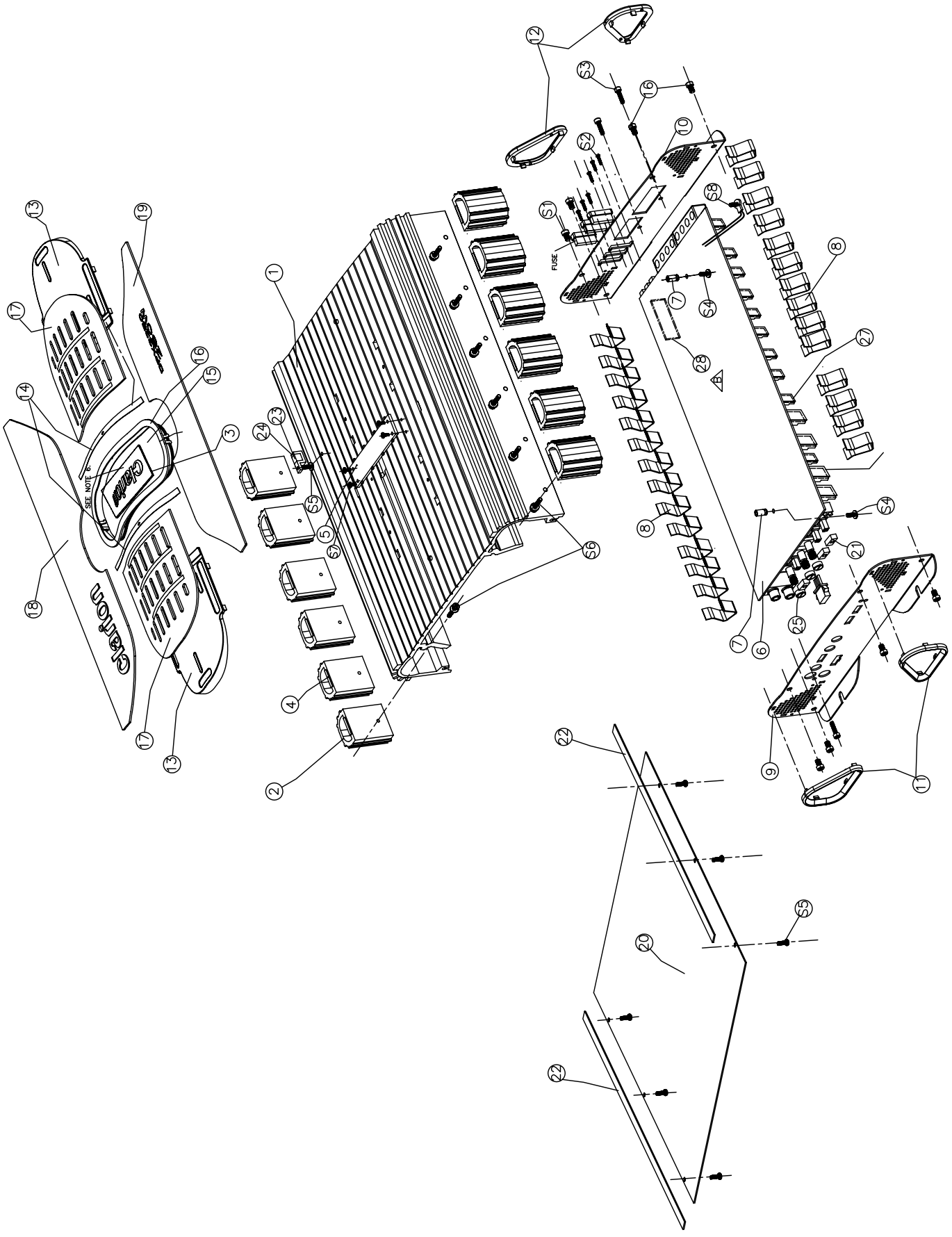
NOTE: FOR FURTHER IMPROVEMENT, SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE.

■TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
NO AUDIO	LOW OR NO REMOTE TURN-ON VOLTAGE	CHECK REMOTE CONNECTIONS AT AMPLIFIER AND SOURCE UNIT.
	BLOWN AMPLIFIER FUSE	REPLACE WITH NEW FAST-BLOW FUSE (SAME RATING).
	POWER WIRES NOT CONNECTED	CHECK BATTERY AND GROUND WIRING AT AMPLIFIER; ALSO CHECK BATTERY CONNECTIONS.
	SPEAKER LEADS SHORTED	CHECK SPEAKER CONTINUITY TO GROUND, IT SHOULD NOT SHOW A COMMON GROUND.
	SPEAKERS NOT CONNECTED OR ARE BLOWN	CHECK SPEAKER CONNECTIONS AT AMPLIFIER, MEASURE COIL IMPEDANCE.
AUDIO CYCLES ON AND OFF	THERMAL PROTECTION CIRCUITS ARE SHUTTING AMPLIFIER OFF	CHECK LOCATION FOR ADEQUATE VENTILATION; CONSULT AN AUTHORIZED CLARION AUDIO DEALER.
DISTORTED AUDIO.	GAIN IS NOT SET PROPERLY, OR DAMAGED SPEAKER CONES	REVIEW SETTING GAIN; INSPECT EACH SPEAKER CONE FOR SIGNS OF DAMAGE (I.E., FROZEN CONE, BURNING SMELL, ETC.)
AMPLIFIER FUSE KEEPS BLOWING	INCORRECT WIRING OR SHORT CIRCUIT	REVIEW INSTALLATION AND CHECK ALL WIRING CONNECTION.
WHINING OR TICKING NOISE IN THE AUDIO WITH ENGINE ON.	AMPLIFIER IS PICKING UP ALTERNATION NOISE OR RADIATED NOISE	TURN DOWN INPUT GAIN AND MOVE AUDIO CABLES AWAY FROM POWER WIRES. CHECK POWER AND GROUND CONNECTIONS ON AMPLIFIER AND INSTALL AN IN-LINE NOISE FILTER ON SOURCE UNIT'S POWER WIRE. ALSO CHECK THE ALTERNATOR AND /OR VOLTAGE. TEST FOR WEAK BATTERY OR ADD WATER TO BATTERY.

■EXPLODED VIEW / PARTS LIST

REF	Part No		Description	Specification	Unit
1	UB	93-DB30-0000	HEATSINK	AL6063 L=304.8mm BLACK	PCS
2	UB	93-DB38-0000	SUB HEATSINK	AL6063 L=38mm BLACK	PCS
3	UB	29-0100-0000-PD-01	BACK LIGHTED PAPER	WHITE 0.1mm	PCS
4	UB	29-1602-0500-PD	FIBER PAPER	16*2*0.5mm	PCS
5	UB	PCB-1020-10HB	LED PCB ASSEMBY	106*20*1.0t/mm 94V0 BLUE	PCS
6	UB	PCB-2915-16HB-03	PCB	297*153*1.6mm Blue FR4 DOUBLE	PCS
7	UB	MM-3264-7900	SPACE BAR	Φ3.2*Φ6.4*H7.9MM	PCS
8	UB	JJ-FB24-1001	CLIP	1*10.2*24.2MM BLACK	PCS
9	UB	MG-DPX2250-L	FRONT PANNEL	BLACK	PCS
10	UB	MG-DPX2250-R	REAR PANNEL	BLACK	PCS
11	UB	MM-DPX2250-01	SIDE RING (LEFT)	ABS BLACK	PCS
12	UB	MM-DPX2250-02	SIDE RING (RIGHT)	ABS BLACK	PCS
13	UB	MG-DPX2250-03	ACRYLIC BOARD	PC TRANSPARENT	PCS
14	UB	29-1011-0100-PD	TINFOIL	106*11TAK0.1mm	PCS
15	UB	MG-DPX2250-04	LOGO BADGE	PC	PCS
16	UB	MG-DPX2250-05	BADGE RING	PC SILVER	PCS
17	UB	MG-DPX2250-02	TOP COVER	ALUMI	PCS
18	UB	MG-DPX2250	TOP COVER - LOGO	ALUMI, 304.8MM	PCS
19	UB	MG-DPX2250-01	TOP COVER - MODEL	ALUMI, 304.8MM	PCS
20	UB	MM-DPX2250	BOTTOM COVER	BLACK	PCS
21	UB	29-1810-0400-ED	EVA	18*10*4MM	PCS
22	UB	29-3008-0500-DA	BOTTOM PAD	300*8*0.5mm	PCS
23	UB	PC-0805-03GW	EVA FOAM	8*5mm, 3mm,EVA	PCS
24	UB	29-PH00-001A	PLASTIC PAD	PH-1A	PCS
25	UB	04-0809-00GG	VR CAP	Φ8.5*9.0mm BLACK ABS	PCS
26	UB	TIN-AMIT2-018	MIKA	20*25*0.1MM	PCS
27	UB	TIN-AM1T2-017	MIKA	18.5*13*0.1MM	PCS
28	UB	PCB-5726-16FR	PCB	57*26*1.6/mm BLUE FR-4	PCS
S1	UB	LS-FBLO-0406	SCREW	4*6mm HEX BLACK	PCS
S2	UB	LS-FBDG-0210-01	SCREW	PHILIPPSΦ2*10MM BLACK	PCS
S3	UB	LS-FBLO-0308	SCREW	3*8mm HEX BLACK	PCS
S4	UB	LS-FBDO-0314	SCREW	PHILIPPSM3*14mm BLACK	PCS
S5	UB	LS-FSDO-0306-01	SCREW	PHILIPPS Φ3*6MM	PCS
S6	UB	LS-FBDO-0317	SCREW	PHILIPPS W/WASHER M3*17mm BLACK	PCS
S7	UB	LS-FSGG-0205	SCREW	M2*5mm PHILIPPS	PCS
S8	UB	LS-FBCG-0306	SCREW	PHILIPPS Φ3*6MM BLACK	PCS


SEE NOTE 6
FUSE

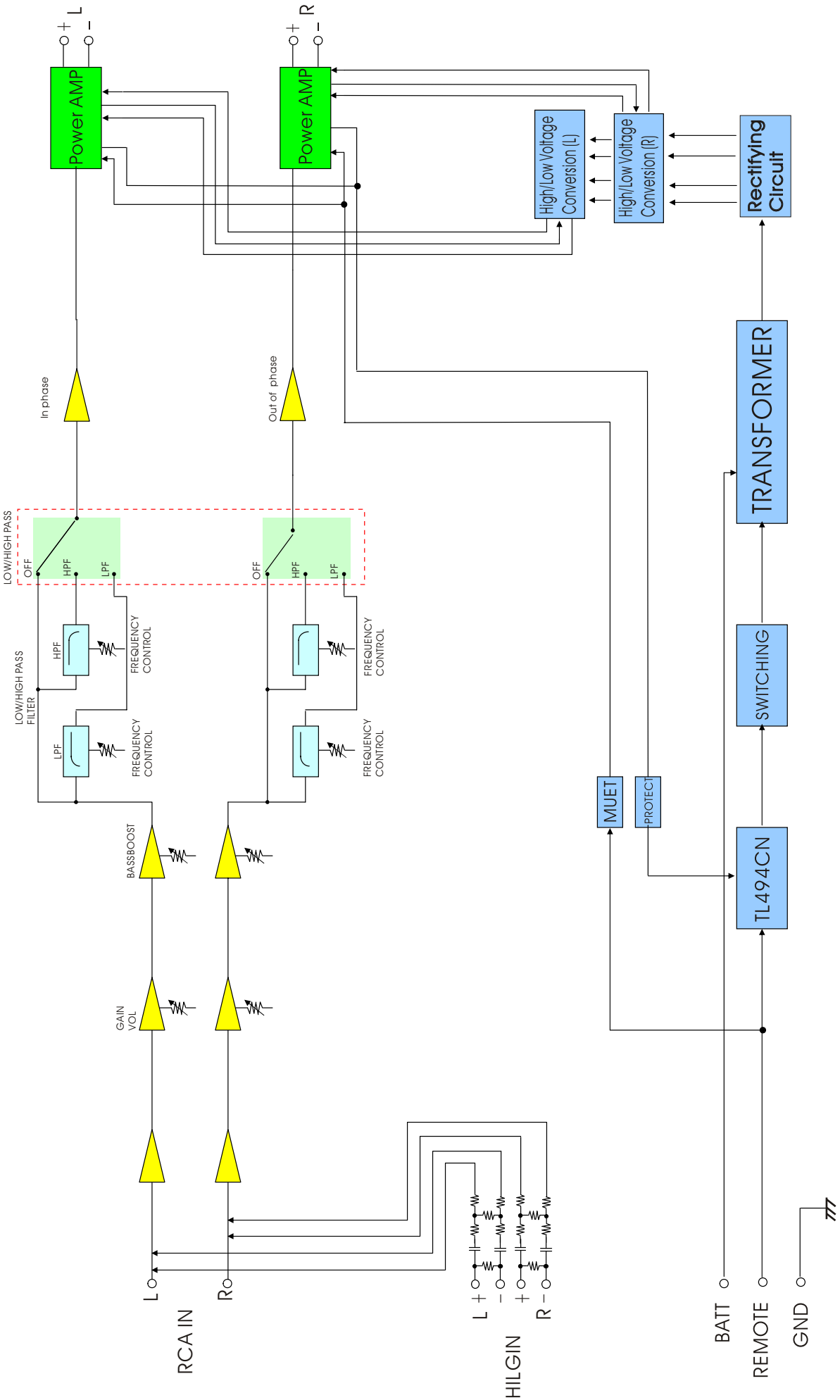
■ELECTRICAL PART LIST

PART NO.		DESCRIPTION	SPEC	QTY	LOCATION REF.
UB	40-LG20-0020	JUMPER	1*20mm	3	JP1 JP2 JP14
UB	40-LG40-0020	JUMPER	1*40mm	1	JP6
UB	40-LH10-0100	JUMPER	1*100mm	1	JP9
UB	40-LH10-0100-02	JUMPER	Φ2.0mm L100mm H13mm	1	JMP4
UB	40-LH10-0217	JUMPER	Φ2.0*100mm H=17mm	1	JMP3
UB	40-LH14-0200-01	JUMPER	ψ2.0mm L=140mm H=17mm	2	JMP1 JMP2
UB	40-LH25-0200-01	JUMPER	Φ2*25mm H=5mm	1	JP5
UB	40-LH25-0201	JUMPER	L=25mm H=7.7MM, 1MM	2	JP11 JP4
UB	40-LH30-0100	JUMPER	1*30mm	1	JP3
UB	40-LH30-0200-02	JUMPER	Φ2*30mm H=5mm	1	JP7
UB	40-LH40-0200-02	JUMPER	Φ2*40mm H=5mm	1	JP10
UB	40-LH50-0100	JUMPER	1*50mm	1	JP15
UB	40-LH70-0100	JUMPER	1*70mm	2	JP12 JP16
UB	40-LH80-0200-01	JUMPER	Φ2*80mm H=13mm	1	JMP5
UB	40-LHA0-0200-03	JUMPER	Φ2*110mm H=17mm	2	JP8 JP13
UB	61-B080-0100-02	CABLE	BLACK Φ6.5mm AWG1007 16# L=80mm	1	GND
UB	61-BW10-0500	CABLE	5PIN CABLE AWG1007 22＃ 110mm	1	HI LEVEL IN
UB	61-CC20-0300	CABLE	3PIN L=300mm 26#	1	CON101
UB	61-RB13-0200	CABLE	2P CABLE AWG1007 26# 135mm	1	THERMISTOR
UB	BYQ-0406-4700	TRANSFORMER	Φ47mm4:6:6 1.0mm*8*4TS SEC(1.0*4*6)	1	T1
UB	CCL-101J2AOAT-UB	C/CAPACITOR	100P/100V	8	C60 C61 C62 C63 RC3 RC6 RC12 RC15
UB	CCL-104J2AOAT-UB	C/CAPACITOR	104/100V "J" PRITCH:5mm	21	C43 C44 C45 C46 C47 C48 C49 C50 C410 C415 C414 C4 20 C421 C425 C426 C431 C432 RC24 RC25 RC26 RC27
UB	CCL-151J2AOAT-UB	C/CAPACITOR	151/100V PITCH:5mm	2	C30 C32
UB	CCL-221J2AOAT-UB	C/CAPACITOR	220P/100V "J" AI 5mm	6	RC1 RC10 RC18 RC19 RC20 RC21
UB	CCL-271J2AOAT-UB	C/CAPACITOR	271/100V PITCH:5mm	4	C27 C29 C34 C55
UB	CCL-470J2AOAT-UB	C/CAPACITOR	47/100V PITCH:5mm	8	C5 C6 C10 C18 C19 C23 RC22 RC23
UB	CCL-681J2EOAT-UB	C/CAPACITOR	681/250V	1	RC28
UB	CEN105J1HYRAT-UB	NP CAPACITOR	1uF/50V"M"105 AI Φ4*7mm5mm	4	C3 C4 C16 C17
UB	CEN107J1HYRAT-UB	NP CAPACITOR	100uF/25V105℃ Φ8*12 BLACK	1	C64
UB	CEN226J1HYRAT-UB	NP CAPACITOR	22uF/50V105℃ BLACK Φ6.3*11mm	2	RC4 RC13
UB	CEP104J1HHR5T-UB	E/ CAPACITOR	0.1UF/50V 105℃Φ5*11mm	2	C8 C21
UB	CEP106J1CYR5T-UB	E/ CAPACITOR	SMT 10UF/16V D=5mm L=5.4mm "M" 105℃	1	C405
UB	CEP107EHRAP-01	E/ CAPACITOR	100UF/63V 105℃ Φ10*16mm LOW ESR	2	C26 C28
UB	CEP107J1CHR5T-UB	E/ CAPACITOR	SMT 100UF/16V D=5mm L=5.4mm "M" 105℃	2	C433 C26
UB	CEP107J1EHR6T-01UB	E/ CAPACITOR	100uF/25V "M"105 AI Φ6.3*11mm5mm	5	C427 C428 C429 C430 RC9
UB	CEP225J1HHR5T-UB	E/ CAPACITOR	2U2/50V 105℃Φ5*11mm	2	C2 C15
UB	CEP227J1EHRAT-UB	E/ CAPACITOR	220uF/25V105℃ BLACK	4	C53 C59 C39 C51
UB	CEP228J1HHRAP-01	E/ CAPACITOR	2200UF/50V 105℃ Φ18*25mm	4	C41 C56 C57 C58
UB	CEP228J1VHRAP-03	E/ CAPACITOR	2200uF/35V 105℃ LOW ESR	3	C13 C35 C37
UB	CEP474J1HHR5T-UB	E/ CAPACITOR	0.47UF/50V 105℃ Φ5*11mm	2	C9 C22
UB	CEP475J1EHR5T-UB	E/ CAPACITOR	SMT 4U7/25V D=4mm L=5.4mm "M" 105℃	2	C434 C437
UB	CEP475J1HHR5T-01UB	E/ CAPACITOR	4U7/50V 105℃ BLACK Φ5*11	6	C7 C20 RC8 RC17 RC2 RC11
UB	CML-104J2AOAP-03	CAPACITOR	104J/100V	4	RC5 RC7 RC14 RC16
UB	CML-104J2AOAP-05	CAPACITOR	104 0805M 50V	2	C401 C13
UB	CML-224J1JOAP-02	CAPACITOR	224/63V	4	C31 C33 C52 C54
UB	CML-472J2AOAP-04	CAPACITOR	472 0805J50V	1	C402
UB	CML-563J1JOAT-UB	CAPACITOR	563/63V PITCH:5mm	4	C11 C12 C24 C25
UB	DPX2250-03	MINIBOARD	DPX2250 ZM-MK494	1	
UB	DR-D0IN4001-T-02	DIODE	IN4001 SMT	1	D407
UB	DR-DO2502CC-T	DIODE	C25-02C TO-220AB	2	D2 D21
UB	DR-DO2502CN-T	DIODE	C25-02N TO-220AB	6	D1 D20 D25 D26 D28 D30
UB	DS-D0IN4148-T-02	DIODE	IN4148	3	D401 D410 D412
UB	DS-D0IN5402-T-01	DIODE	IN5402	1	D406
UB	DS-DOIN4148-T-01	DIODE	IN4148	20	D3 D4 D5 D6 D7 D8 D9 D10 D13 D22 D23 D24 D29 D32 D33 D34 D402 D403 D404 D405
UB	DZ-015S35CW2T-01	ZENER DIODE	5.1V1/2W	1	Z5
UB	DZ-047S17BW2T	ZENER DIODE	4.7VSMT1/2W	1	Z1
UB	DZ-082S29AW2T-01	ZENER DIODE	8.2V 1/2W	4	Z2 Z4 Z7 Z9
UB	DZ-120S1CAW2T-02	ZENER DIODE	SMT 12V1/2W	1	Z5
UB	DZ-120S1CAW2T-03	ZENER DIODE	12V 1/2W	4	Z1 Z3 Z6 Z8
UB	DZ-150S21501T-01	ZENER DIODE	15V/1W	2	Z403 Z404
UB	DZ-390S239W5T	ZENER DIODE	39V/0.5W DO-35	2	Z401 Z402
UB	FUSE-HDP-006	FUSE HOLDER	BLACK (BXS-01E)	3	F401 F1 F2
UB	FUSE-R250E20H-01	FUSE	20A*3 UL	3	F401 F1 F2

PART NO.		DESCRIPTION	SPEC	QTY	LOCATION REF.
UB	IA-0000PC817H	IC	PC817 DIP4	1	U7
UB	IA-00TL074CNH-01	IC	TL074 DIP14	4	U2 U4 U5 U6
UB	IA-00TL494CNH	IC	SMT TL494CN	1	U401
UB	JP-12XV3-001B	CONNECTER	3PIN 2.0mm	1	CON101
UB	JR-12CVA-002Z	RCA	2P RED/WHITE 2-HOLE AV2-8.4-13A	1	RCA1
UB	LC-GG25-0023	INDUCTOR	2.5uH Φ23 1.2*5*5.5Tmm	1	L401
UB	LD-R0G10-001D	LED HOLDER	10*8.2*4.3mm	1	LED2
UB	LD-R0U30-008E-01	LED	3.2*1.8mm BLUE	8	LED1 LED2 LED3 LED4 LED5 LED6 LED7 LED8
UB	LD-ROU30-005R	LED	ψ3* 4.8mm RED	1	LED2 RED
UB	LD-ROU30-011E	LED	ψ3*4.8mm BLUE	1	LED2 BLUE
UB	PB-00RN-03-10	TERMINAL BLOCK	3P(JSE3A-25PC) BLACK	1	J2
UB	PB-00RN-04-12	TERMINAL BLOCK	4P(JSE4A-23PC) BLACK	1	CON3
UB	PB-12RN-01	CONNECTER	2.54mm 12PIN 90 DEGREE FEET	1	CON1
UB	PCB-1020-10HB	LED BOARD	106*20*1.0t/mm 94V0 BLUE	1	
UB	PCB-2915-16HB-03	PCB	297*153*1.6mm Blue FR4 DOUBLE	1	
UB	PCB-5726-16FR	PCB	57*26*1.6/mm BLUE FR-4	1	
UB	RC-100J01-MLT-01	RESISTORS	10Ω 1W	2	RR34 RR75
UB	RC-100JW8-MLT-01	RESISTORS	10R 1/8W 5%	6	R24 R25 R26 R57 R58 R59
UB	RC-101JW8-MLT-01	RESISTORS	100Ω1/8W	8	R11 R44 R68 R75 R77 R95 R101 R103
UB	RC-102FWA-S1T	RESISTORS	1K0805 1%	2	R66 R89
UB	RC-102J01-MLT-01	RESISTORS	1K 1W	3	R67 R74 R422
UB	RC-102JW4-MLT-01	RESISTORS	1K/1/4W	1	R110
UB	RC-102JW8-MLT-01	RESISTORS	1K/1/8W	16	R70 R90 R97 R413 R414 R415 R416 RR3 RR11 RR13 RR40 RR43 RR44 RR52 RR54 RR81
UB	RC-103FWA-S1T	RESISTORS	10K0805 1%	5	R425 R427 R428 R402 R90
UB	RC-103JW8-MLT-01	RESISTORS	10K/1/8W	4	R12 R45 RR5 RR41
UB	RC-104FWA-S1T	RESISTORS	100K0805 1%	2	R426 R91
UB	RC-104JW8-MLT-01	RESISTORS	100K/1/8W	4	R73 R80 R100 R106
UB	RC-112JW8-MLT-01	RESISTORS	1K1 1/8W 5%	2	R17 R50
UB	RC-122JW8-MLT-01	RESISTORS	1K21/8W	8	R79 R105 R69 R76 R81 R96 R102 R107
UB	RC-124JW8-MLT-01	RESISTORS	120K 1/8W 5%	2	RR37 RR78
UB	RC-152JW8-MLT-01	RESISTORS	1K51/8W 5%	4	R72 R78 R99 R104
UB	RC-153FWA-S1T	RESISTORS	15K08051%	1	R67
UB	RC-155FWA-S1T	RESISTORS	1M5 0805 1%	1	R439
UB	RC-182JW4-MLT-01	RESISTORS	1.8K 1/4W	2	RR19 RR60
UB	RC-183JW8-MLT-01	RESISTORS	18K1/8W	2	R18 R51
UB	RC-205FWA-S1T	RESISTORS	2M 0805 1%	1	R407
UB	RC-220J01-MLT	RESISTORS	22R 1W	1	RR86
UB	RC-221JW4-MLT-01	RESISTORS	220R/1/4W 5%	2	RR26 RR67
UB	RC-222JW8-MLT-01	RESISTORS	2.2K/1/8W	2	RR16 RR57
UB	RC-223JW8-MLT-01	RESISTORS	22K 1/8W	19	R2 R20 R22 R23 R30 R35 R53 R55 R56 R63 R325 R326 RR15 RR33 RR56 RR74 RR77 RR89 R91
UB	RC-244JW8-MLT	RESISTORS	240K1/8W5%	1	RR42
UB	RC-271JW4-MLT-01	RESISTORS	270Ω 1/4W 5%	2	RR1 RR97
UB	RC-272JW8-MLT-01	RESISTORS	2.7K/1/8W	4	R93 R94 R108 R109
UB	RC-273JW8-MLT-01	RESISTORS	27K1/85%	2	R111 R112
UB	RC-302FWA-S1T	RESISTORS	3K 0805 1%	1	R401
UB	RC-302JW8-MLT-01	RESISTORS	3K/1/8W	2	R71 R98
UB	RC-330JW8-MLT-01	RESISTORS	33Ω/1/8W	8	RR7 RR8 RR9 RR10 RR48 RR49 RR50 RR51
UB	RC-331JW8-MLT-01	RESISTORS	330Ω1/8W 5%	4	RR4 RR39 RR45 RR80
UB	RC-332FWA-S1T	RESISTORS	3K3 0805 1%	3	R437 R438 R39
UB	RC-334JW8-MLT-01	RESISTORS	330K 1/8W 5%	2	R19 R52
UB	RC-362JW4-MLT	RESISTORS	3.6K1/4W5%	2	RR18 RR59
UB	RC-362JW8-MLT-01	RESISTORS	3K61/8W	4	R21 R54 R83 R84
UB	RC-392JW4-MLT-01	RESISTORS	3K9 1/4W	2	R430 R431
UB	RC-3R0JW8-MLT-01	RESISTORS	3Ω 1/8W	8	RR22 RR23 RR29 RR30 RR63 RR70 RR82 RR85
UB	RC-432JW8-MLT-01	RESISTORS	4.3K1/8W	2	RR17 RR58
UB	RC-470J01-MLT	RESISTORS	472W	2	R429 R432
UB	RC-470JW4-MLT-01	RESISTORS	47Ω/1/4W	4	RR20 RR31 RR61 RR72
UB	RC-470JW8-MLT-01	RESISTORS	47Ω/1/8W	10	R6 R39 R417 R418 R419 R420 RR12 RR14 RR53 RR55
UB	RC-471J02-MLT	RESISTORS	470Ω/1W	2	R3 R36

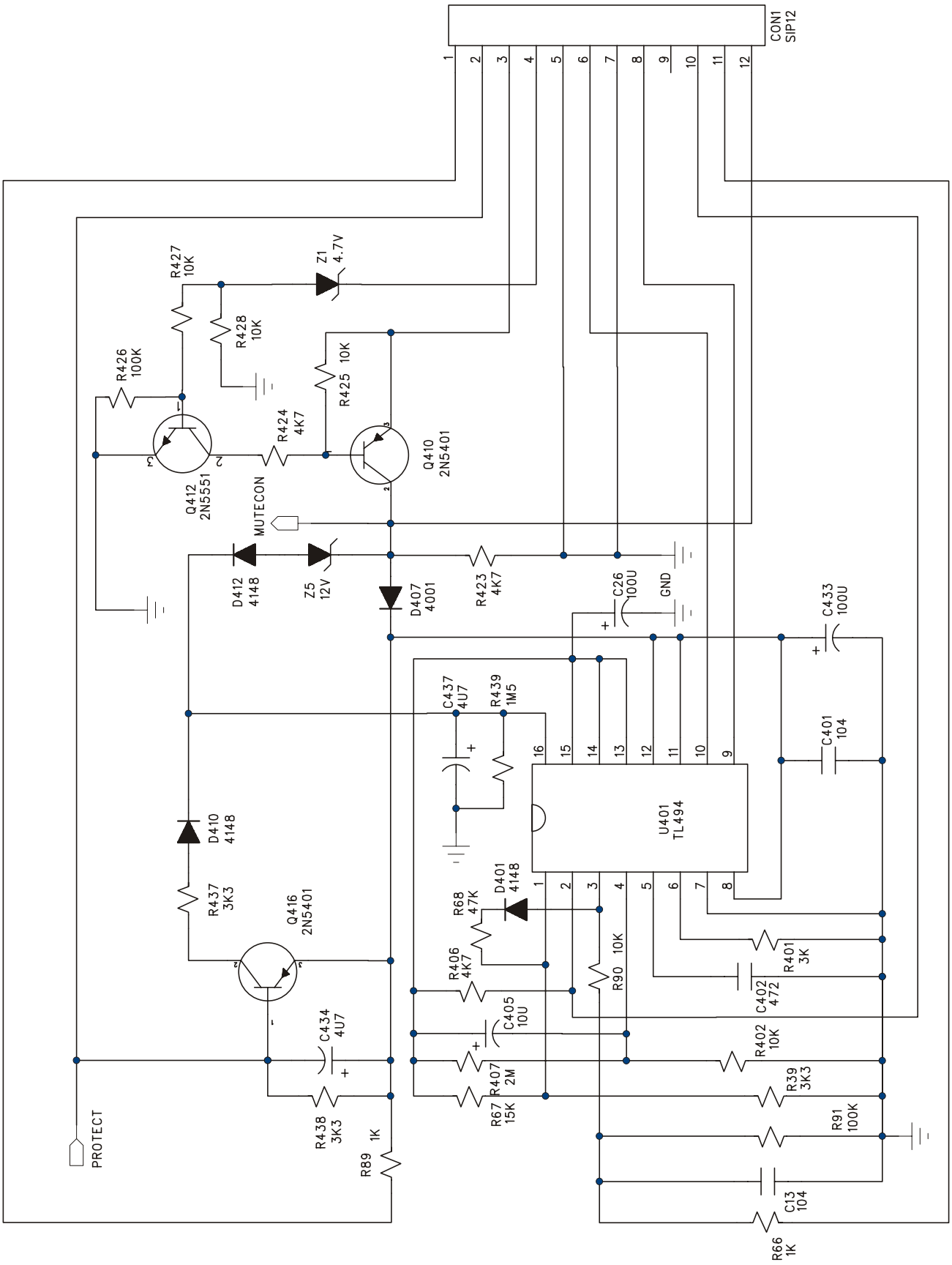
PART NO.		DESCRIPTION	SPEC	QTY	LOCATION REF.
UB	RC-472FWA-S1T	RESISTORS	4K708051%	3	R406 R424 R423
UB	RC-472JW8-MLT-01	RESISTORS	4.7K/1/8W	7	R33 R85 R88 R92 RR38 RR79 R115
UB	RC-473FWA-S1T	RESISTORS	47K08051%	1	R68
UB	RC-473JW8-MLT-01	RESISTORS	47K1/85%	1	R114
UB	RC-562JW8-MLT-01	RESISTORS	5K6 1/8W	5	RR6 R29 R62 R61 R28
UB	RC-563JW8-MLT-01	RESISTORS	56K/1/8W	4	RR21 RR32 RR62 RR73
UB	RC-682JW8-MLT-01	RESISTORS	6.8K/1/8W	4	R82 R86 R27 R60
UB	RC-822JW8-MLT-01	RESISTORS	8K21/8W	1	R87
UB	RN1000JW8-MLT-03	RESISTORS	100R 1/8W 1%	2	R16 R49
UB	RN1001JW8-MLT-03	RESISTORS	1K 1/8W 1%	4	R14 R47 R66 R89
UB	RN1002JW8-MLT-03	RESISTORS	1K2 1/8W 1%	3	R31 R64 R113
UB	RN1502JW8-MLT-01	RESISTORS	15K 1/8W 1%	4	R9 R10 R42 R43
UB	RN2002JW8-MLT-02	RESISTORS	20K 1/8W 1%	2	R32 R65
UB	RN2400JW8-MLT	RESISTORS	240K 1/8W 1%	2	R13 R46
UB	RN2702JW8-MLT-01	RESISTORS	27K 1/8W 1%	4	R7 R8 R40 R41
UB	RN4701JW8-MLT-01	RESISTORS	4.7K 1/8W	4	R4 R5 R37 R38
UB	RN7500JW8-MLT-01	RESISTORS	750R 1/8W 1%	2	R15 R48
UB	RSG-0801-WT	SILICON TUBE	Φ1.0*8mm	4	QR7 QR25
UB	RSG-1001-WT	SILICON TUBE	Φ1.0*10mm WHITE	36	MOSFET FRR
UB	RSG-1525-BR	SILICON TUBE	Φ1.5*25mm UL	2	RT1
UB	RSG-2006-WG	SILICON TUBE	Φ2.0*6MM	16	TRANSISTOR
UB	RW-R15J03-QPP-01	CEMENT RESISTORS	0.15ohm 3W	8	RR24 RR25 RR27 RR28 RR65 RR68 RR83 RR84
UB	ST1-00B647H-01	TRIODO	B647 TO-92	7	Q2 Q5 Q9 Q12 Q414 QR6 QR24
UB	ST1-00D667T-01	TRIODO	D667 TO-92M	3	QR8 Q415 QR26
UB	ST1-050N06H-01	MOS	50N06 TO-220AB	10	Q1 Q4 Q6 Q7 Q8 Q11 Q406 Q407 Q408 Q409
UB	ST1-0B649AH-01	TRIODO	B649ATO-126M	2	QR9 QR27
UB	ST1-0D669A-01	TRIODO	D669ATO-126M	4	QR7 QR12 QR25 QR30
UB	ST1-2N5401H	TRIODO	2N5401 TO-92	8	Q404 Q405 QR1 QR2 QR5 QR19 QR21 QR23
UB	ST1-2N5401H-01	TRIODO	SMD 2N5401 TO-23"F"	2	Q410 Q416
UB	ST1-2N5551H-01	TRIODO	2N5551TO-92	15	Q3 Q10 Q13 QR3 QR4 QR15 QR16 QR17 QR18 QR20 QR22 QR33 QR34 Q14 Q15
UB	ST1-2N5551H-03	TRIODO	SMD 2N5551TO-23"F"	1	Q412
UB	ST1-TIP35CH	TRANSISTOR	TIP35CTO-218	4	QR13 QR14 QR31 QR38
UB	ST1-TIP36CH	TRANSISTOR	TIP36CTO-218	4	QR10 QR11 QR28 QR37
UB	SW-DPX2250	LED PLATE		1	
UB	SW-PL23X-009	SWITCH	2P3T L=9mm	3	SW1 SW4 SW5
UB	TMS-PID103-002	THERMISTOR	-10K 10%	1	RT1
UB	VR-R1C503-04-01	VR	C50K 41 L=15mm2.5dB	1	VR4
UB	VR-R2A203	VR	20K 2 L=15mm 2.5dB	1	VR1
UB	VR-R2B203-019	VR	B20K*2 L=15mm	1	VR2

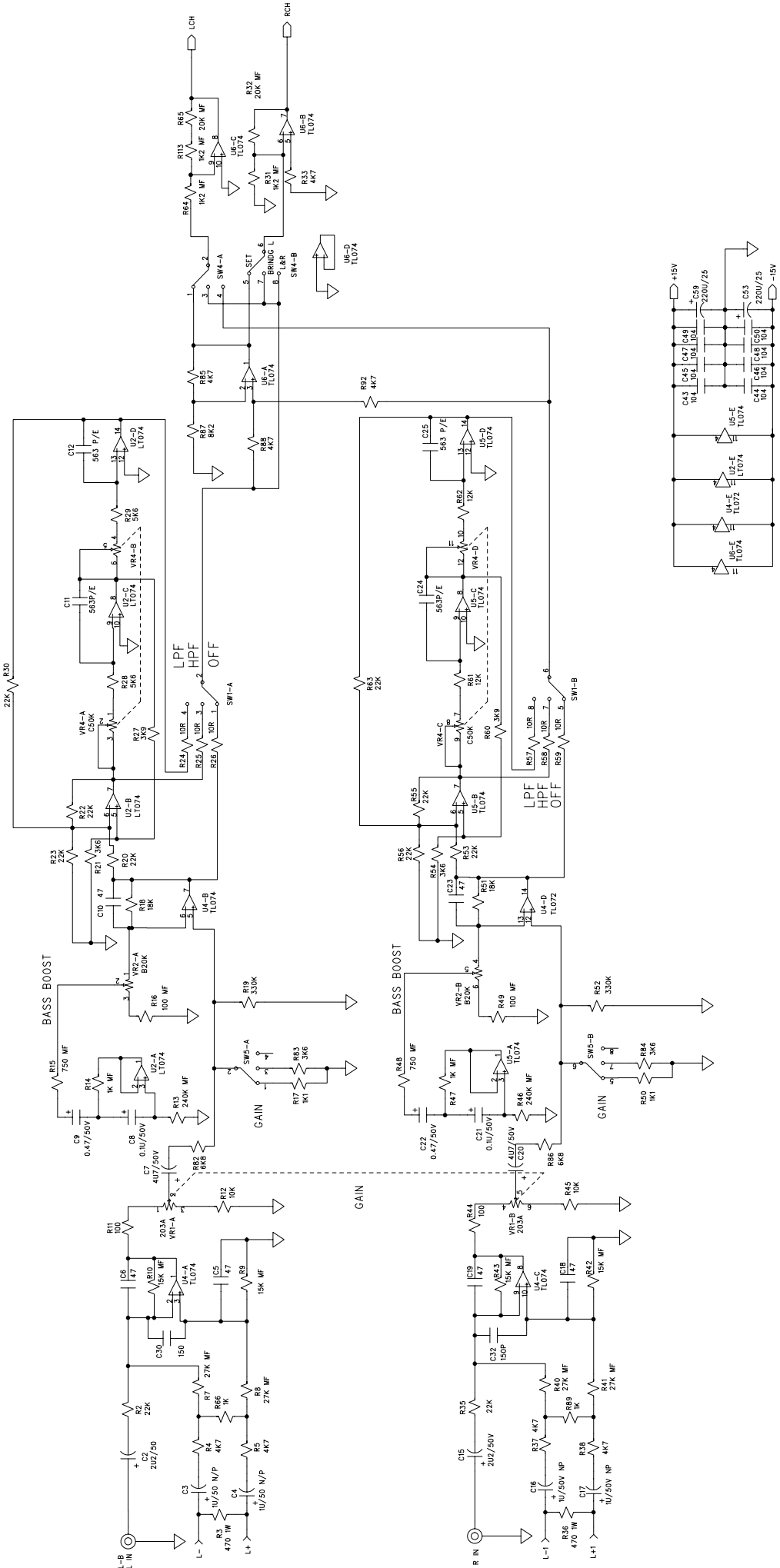
■BLOCK DIAGRAM



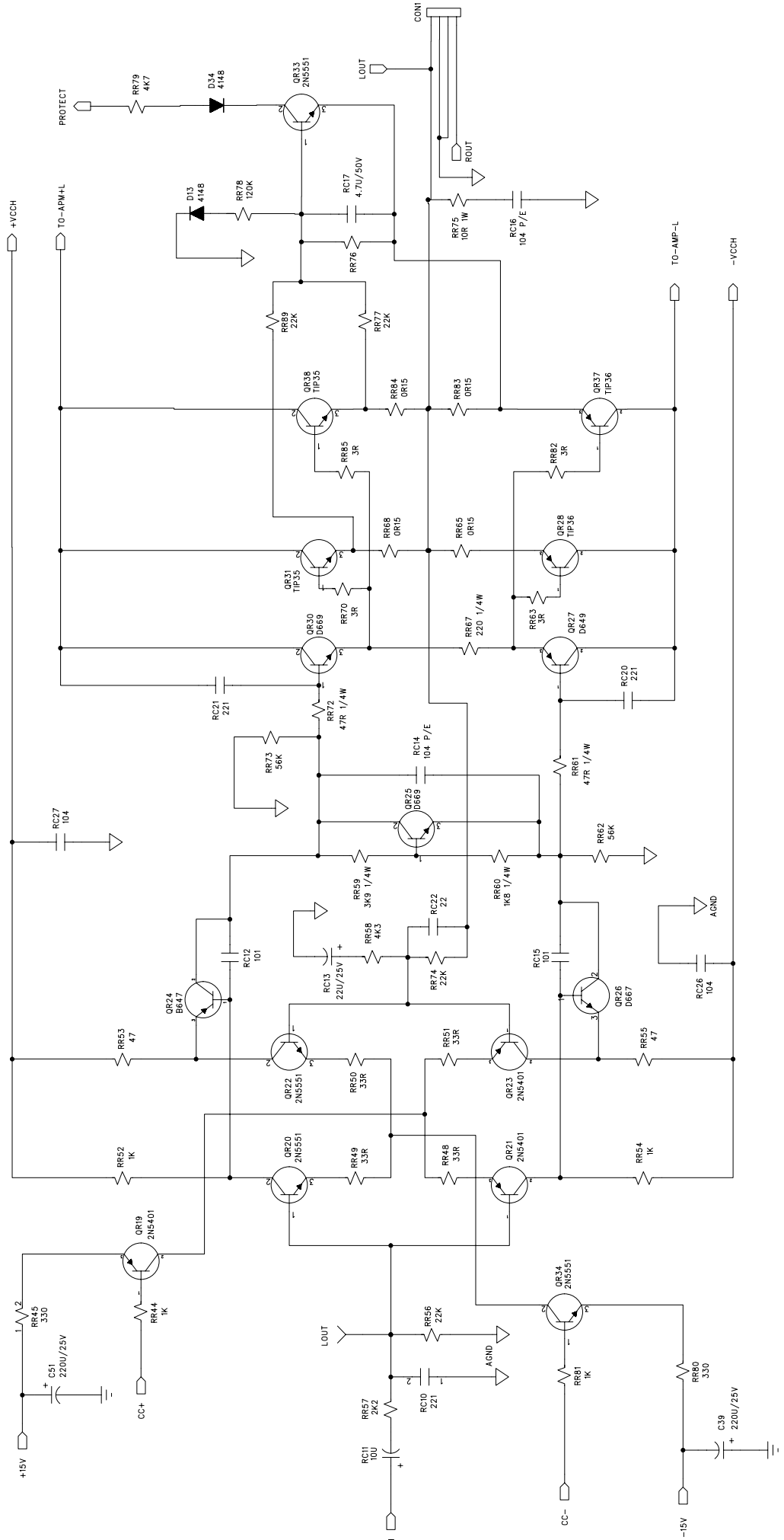
DPX2250

■CIRCUIT DIAGRAM





DPX2250


CON1
LOUT
ROUT
PROTECT
RR79 4K7
D34 4148
QR33 2N5551
D13 4148
RR78 120K
RC17 4.7U/50V
RR75 10R 1W
RC16 104 P/E
RR76
+VCCH
TO-APM+L
TO-AMP-L
-VCCH
RR89 22K
RR77 22K
QR38 TIP35
QR37 TIP36
RR84 0R15
RR83 0R15
RR85 3R
RR82 3R
RR68 0R15
RR65 0R15
QR28 TIP36
QR31 TIP35
RR70 3R
RR63 3R
QR30 D669
QR27 D649
RR67 220 1/4W
RC21 221
RC20 221
RR72 47R 1/4W
RR73 56K
RC14 104 P/E
RR61 47R 1/4W
QR25 D669
RC27 104
RR62 56K
RR59 3K9 1/4W
RR60 1K8 1/4W
RC22 22
RR58 4K3
RC13 22U/25V
RR74 22K
RC12 101
RC15 101
AGND
RC26 104
QR24 B647
QR26 D667
RR53 47
RR51 33R
RR55 47
QR22 2N5551
RR50 33R
QR23 2N5401
QR20 2N5551
RR49 33R
RR48 33R
QR21 2N5401
RR52 1K
RR54 1K
QR19 2N5401
QR34 2N5551
RR45 330
RR44 1K
C51 220U/25V
RR56 22K
RR81 1K
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C39 220U/25V
RR57 2K2
RC10 221
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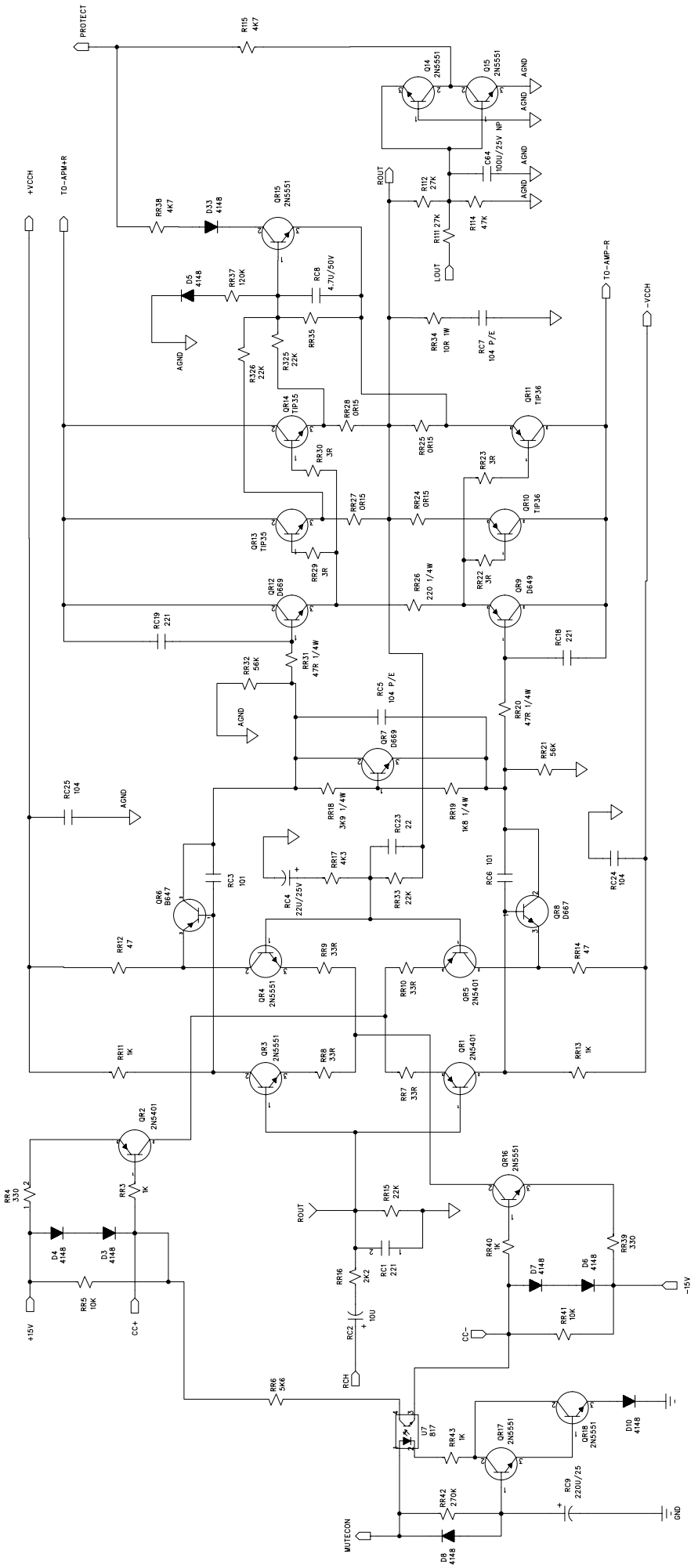
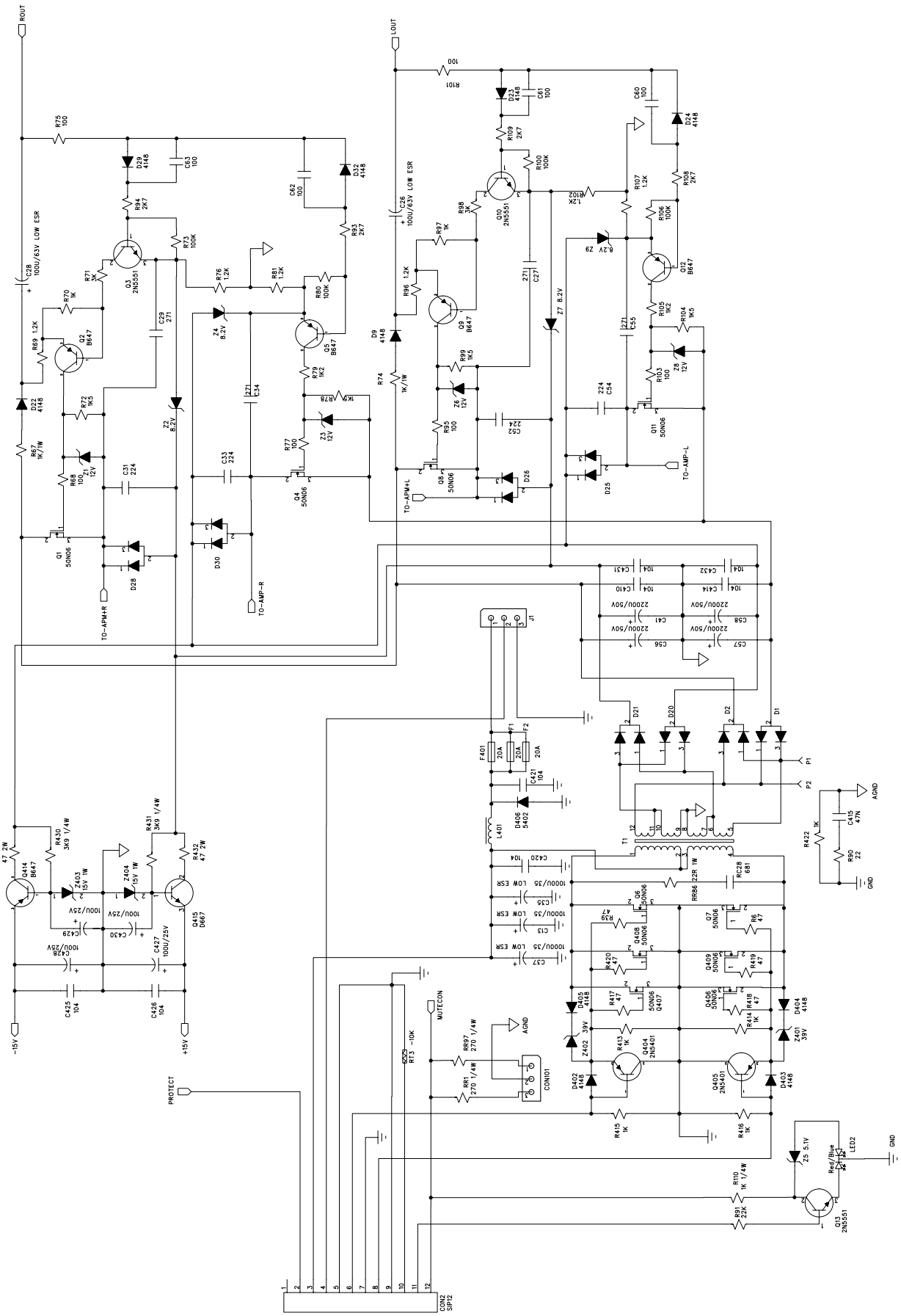
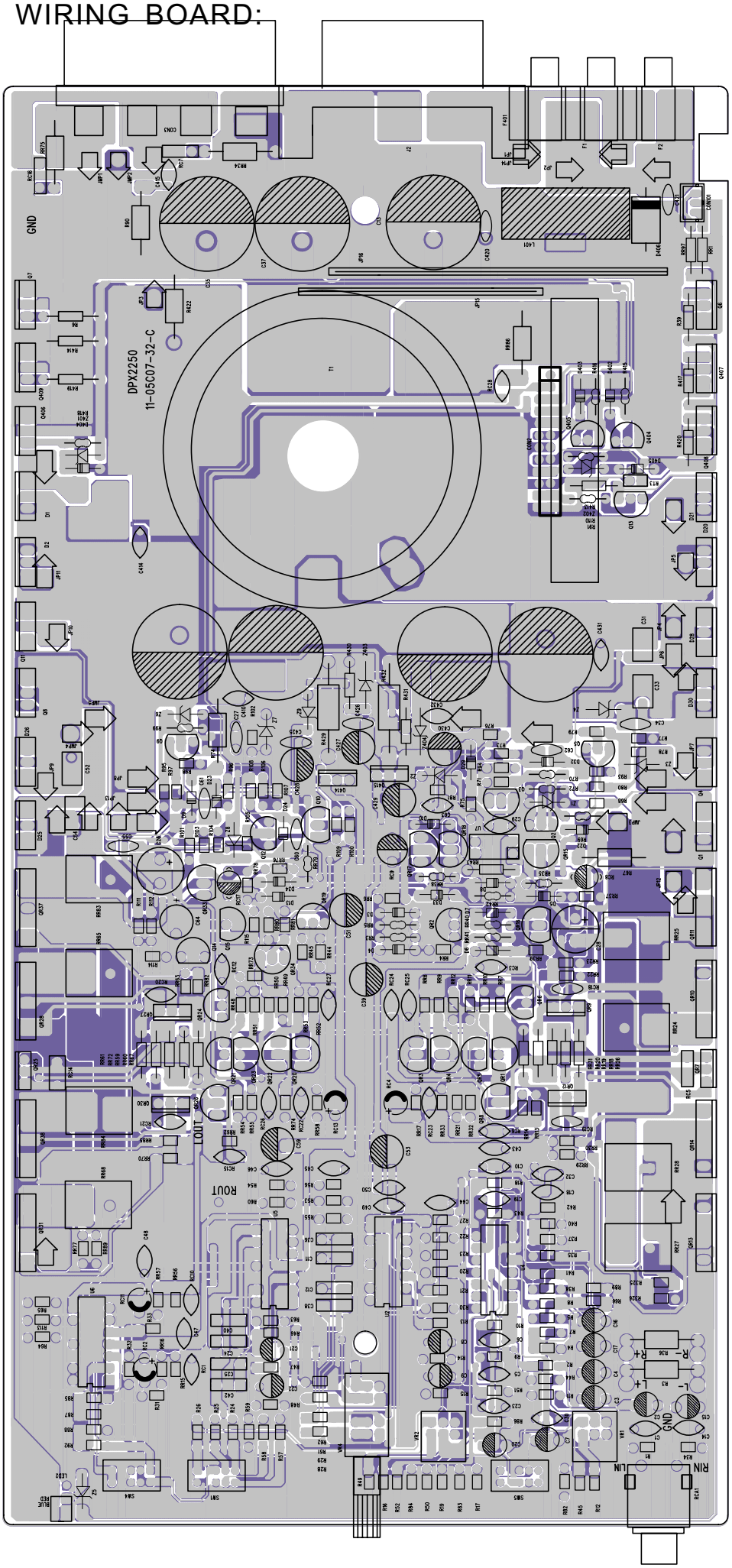
+15V
CC+
CC-
-15V
LCH

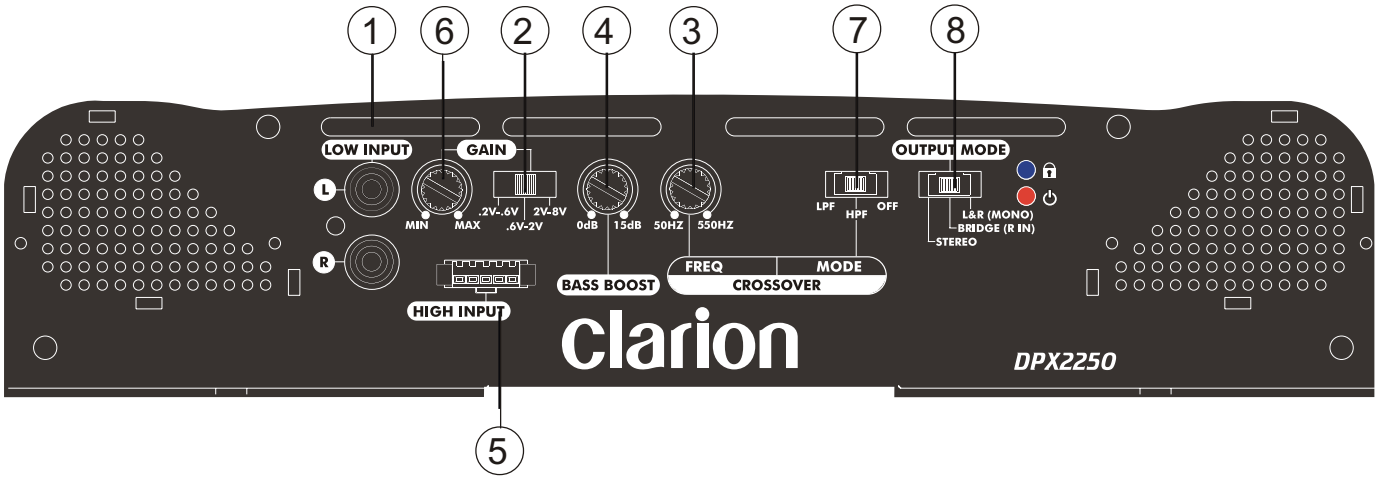

PROTECT
R115 4K7
Q14 2N5551
Q15 2N5551
AGND
C64 100U/25V NP
ROUT
R112 27K
R111 27K
R114 47K
LOUT
+VCCH
TO-AMP+R
TO-AMP-R
-VCCH
RR38 4K7
D33 4148
QR15 2N5551
D5 4148
RR37 120K
RC8 4.7U/50V
RR35
RR34 10R 1W
RC7 104 P/E
R326 22K
R325 22K
QR14 TIP35
QR11 TIP36
RR28 0R15
RR25 0R15
RR30 3R
RR23 3R
RR27 0R15
RR24 0R15
QR10 TIP36
QR13 TIP35
RR29 3R
RR22 3R
QR12 D669
QR9 D649
RR26 22D 1/4W
RC19 221
RC18 221
RR31 47R 1/4W
RR32 56K
RC5 104 P/E
RR20 47R 1/4W
QR7 D669
RR21 56K
RC25 104
RR18 3K9 1/4W
RR19 1K8 1/4W
RC23 22
RR17 4K3
RC3 101
RC4 220U/25V
RR33 22K
RC6 101
RC24 104
QR6 B647
QR8 D667
RR12 47
RR9 33R
RR10 33R
RR14 47
QR4 2N5551
QR5 2N5401
RR11 1K
QR3 2N5551
RR8 33R
QR1 2N5401
RR7 33R
RR13 1K
QR2 2N5401
QR16 2N5551
RR4 330
RR3 1K
RR15 22K
RR40 1K
RR39 330
D4 4148
D3 4148
D7 4148
D6 4148
-15V
+15V
RR5 10K
CC+
RR16 2K2
RC1 221
RC2 10U
RR41 10K
CC-
RCH
RR6 5K6
U7 817
RR43 1K
QR17 2N5551
QR18 2N5551
D10 4148
RC9 220U/25
RR42 270K
GND
MUTECON
D8 4148



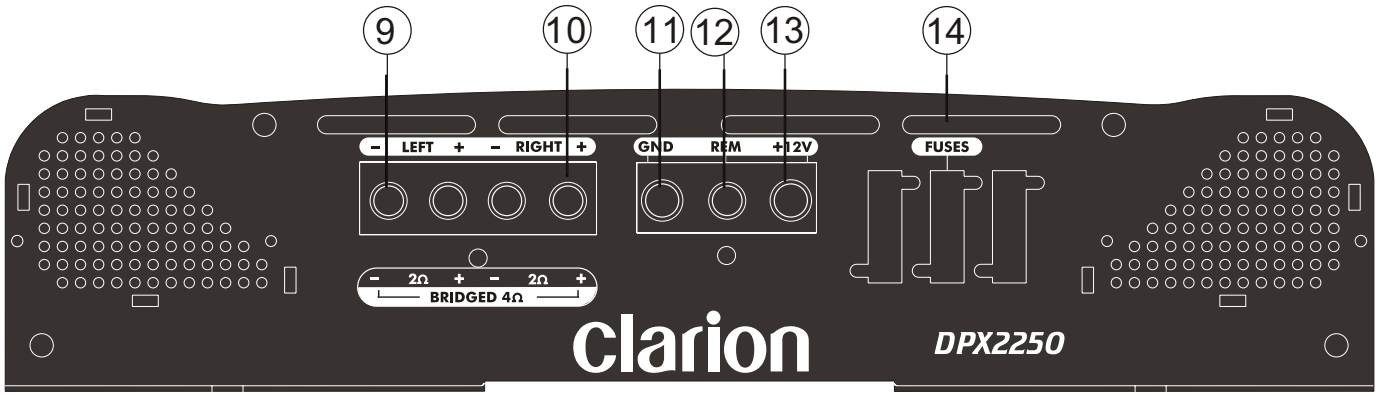
■PRINTED WIRING BOARD:



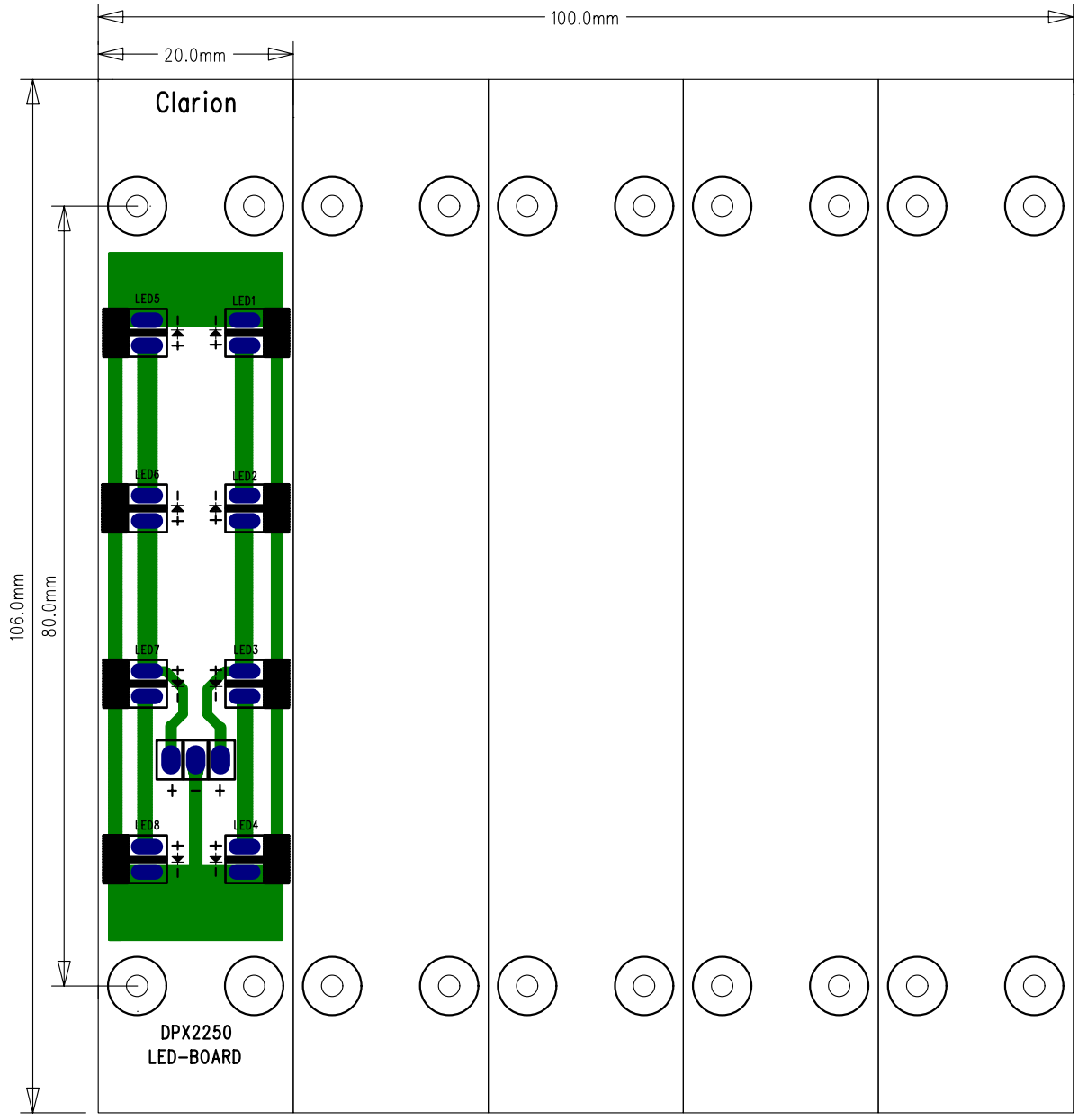
■CONTROL AND CONNECTION:



1. RCA input jacks
2. Input Voltage Selector
3. Precise Frequency Selector
4. Bass Boost Control
5. Speaker Level Inputs
6. Gain control
7. Crossover function switch
8. Output mode switch
9. Left rear speaker output
10. Right rear speaker output
11. Ground connection
12. Remote turn-on connection
13. Battery 12V connection
14. Fuses



■LED BOARD:



NOTES:
1: 94VO
2: T=1.0MM
3: BLUE